



ISSN: 1936-3737

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Released June 9, 2023, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

## **Winter Wheat Production Up 1 Percent from May Forecast Orange Production Up Less Than 1 Percent**

**Winter wheat** production is forecast at 1.14 billion bushels, up 1 percent from the May 1 forecast and up 3 percent from 2022. As of June 1, the United States yield is forecast at 44.9 bushels per acre, up 0.2 bushel from last month but down 2.1 bushels from last year's average yield of 47.0 bushels per acre.

Hard Red Winter production, at 525 million bushels, is up 2 percent last month. Soft Red Winter, at 402 million bushels, is down 1 percent from the May forecast. White Winter, at 209 million bushels, is down 1 percent from last month. Of the White Winter production, 10.3 million bushels are Hard White and 199 million bushels are Soft White.

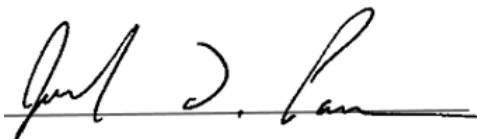
**The United States all orange** forecast for the 2022-2023 season is 2.56 million tons, up less than 1 percent from the previous forecast but down 25 percent from the 2021- 2022 final utilization. The Florida all orange forecast, at 15.8 million boxes (709,000 tons), is up 1 percent from the previous forecast but down 62 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 6.15 million boxes (277,000 tons), unchanged from the previous forecast but down 66 percent from last season's final utilization. The Florida Valencia orange forecast, at 9.60 million boxes (432,000 tons), is up 1 percent from the previous forecast but down 58 percent from last season's final utilization.

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This report was approved on June 9, 2023.



Secretary of Agriculture  
Designate  
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Agricultural Statistics Board  
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**Winter Wheat Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted June 1, 2023**

| State                           | Area harvested |               | Yield per acre |           |           | Production      |                 |
|---------------------------------|----------------|---------------|----------------|-----------|-----------|-----------------|-----------------|
|                                 | 2022           | 2023          | 2022           | 2023      |           | 2022            | 2023            |
|                                 |                |               |                | May 1     | June 1    |                 |                 |
|                                 | (1,000 acres)  | (1,000 acres) | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) |
| Arkansas .....                  | 150            | 160           | 53.0           | 51.0      | 51.0      | 7,950           | 8,160           |
| California .....                | 70             | 95            | 73.0           | 80.0      | 80.0      | 5,110           | 7,600           |
| Colorado .....                  | 1,430          | 1,650         | 25.0           | 30.0      | 32.0      | 35,750          | 52,800          |
| Idaho .....                     | 710            | 700           | 90.0           | 87.0      | 87.0      | 63,900          | 60,900          |
| Illinois .....                  | 560            | 790           | 79.0           | 78.0      | 78.0      | 44,240          | 61,620          |
| Indiana .....                   | 240            | 380           | 81.0           | 77.0      | 77.0      | 19,440          | 29,260          |
| Kansas .....                    | 6,600          | 6,600         | 37.0           | 29.0      | 29.0      | 244,200         | 191,400         |
| Kentucky .....                  | 375            | 430           | 80.0           | 79.0      | 78.0      | 30,000          | 33,540          |
| Maryland .....                  | 170            | 175           | 78.0           | 79.0      | 75.0      | 13,260          | 13,125          |
| Michigan .....                  | 415            | 580           | 83.0           | 81.0      | 76.0      | 34,445          | 44,080          |
| Mississippi .....               | 75             | 95            | 52.0           | 53.0      | 51.0      | 3,900           | 4,845           |
| Missouri .....                  | 410            | 600           | 60.0           | 60.0      | 60.0      | 24,600          | 36,000          |
| Montana .....                   | 1,800          | 1,750         | 33.0           | 44.0      | 44.0      | 59,400          | 77,000          |
| Nebraska .....                  | 820            | 970           | 32.0           | 34.0      | 34.0      | 26,240          | 32,980          |
| North Carolina .....            | 375            | 420           | 64.0           | 63.0      | 64.0      | 24,000          | 26,880          |
| North Dakota .....              | 95             | 110           | 60.0           | 54.0      | 54.0      | 5,700           | 5,940           |
| Ohio .....                      | 465            | 540           | 79.0           | 78.0      | 76.0      | 36,735          | 41,040          |
| Oklahoma .....                  | 2,450          | 2,150         | 28.0           | 23.0      | 25.0      | 68,600          | 53,750          |
| Oregon .....                    | 720            | 740           | 68.0           | 56.0      | 58.0      | 48,960          | 42,920          |
| South Dakota .....              | 730            | 750           | 52.0           | 46.0      | 46.0      | 37,960          | 34,500          |
| Tennessee .....                 | 335            | 400           | 73.0           | 72.0      | 71.0      | 24,455          | 28,400          |
| Texas .....                     | 1,300          | 2,000         | 30.0           | 28.0      | 30.0      | 39,000          | 60,000          |
| Virginia .....                  | 150            | 145           | 68.0           | 61.0      | 61.0      | 10,200          | 8,845           |
| Washington .....                | 1,800          | 1,750         | 68.0           | 57.0      | 56.0      | 122,400         | 98,000          |
| Wisconsin .....                 | 240            | 240           | 78.0           | 71.0      | 71.0      | 18,720          | 17,040          |
| Other States <sup>1</sup> ..... | 974            | 1,066         | 56.0           | 61.8      | 61.8      | 54,542          | 65,840          |
| United States .....             | 23,459         | 25,286        | 47.0           | 44.7      | 44.9      | 1,103,707       | 1,136,465       |

<sup>1</sup> Other States include Alabama, Delaware, Georgia, New Jersey, New Mexico, New York, Pennsylvania, South Carolina, Utah, and Wyoming. Individual State level estimates will be published in the *Small Grains 2023 Summary*.

## Durum Wheat Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted June 1, 2023

[Area harvested for the United States and remaining States will be published in the *Acreage* report released June 2023. Yield and production will be published in the *Crop Production* report released July 2023. Blank data cells indicate estimation period has not yet begun]

| State               | Area harvested |               | Yield per acre |           |           | Production      |                 |
|---------------------|----------------|---------------|----------------|-----------|-----------|-----------------|-----------------|
|                     | 2022           | 2023          | 2022           | 2023      |           | 2022            | 2023            |
|                     |                |               |                | May 1     | June 1    |                 |                 |
|                     | (1,000 acres)  | (1,000 acres) | (bushels)      | (bushels) | (bushels) | (1,000 bushels) | (1,000 bushels) |
| Arizona .....       | 84             | 39            | 114.0          | 106.0     | 105.0     | 9,576           | 4,095           |
| California .....    | 35             | 20            | 110.0          | 110.0     | 110.0     | 3,850           | 2,200           |
| Idaho .....         | 7              |               | 65.0           |           |           | 455             |                 |
| Montana .....       | 675            |               | 28.0           |           |           | 18,900          |                 |
| North Dakota .....  | 780            |               | 40.0           |           |           | 31,200          |                 |
| United States ..... | 1,581          |               | 40.5           |           |           | 63,981          |                 |

## Wheat Production by Class – United States: 2022 and Forecasted June 1, 2023

[Wheat class estimates are based on the latest available data including both surveys and administrative data. The previous end-of-year season class percentages are used throughout the forecast season for States that do not have survey or administrative data available. Blank data cells indicate estimation period has not yet begun]

| Crop               | 2022            | 2023            |
|--------------------|-----------------|-----------------|
|                    | (1,000 bushels) | (1,000 bushels) |
| <b>Winter</b>      |                 |                 |
| Hard red .....     | 530,910         | 525,387         |
| Soft red .....     | 336,525         | 401,830         |
| Hard white .....   | 10,647          | 10,317          |
| Soft white .....   | 225,625         | 198,931         |
| <b>Spring</b>      |                 |                 |
| Hard red .....     | 446,015         |                 |
| Hard white .....   | 6,707           |                 |
| Soft white .....   | 29,468          |                 |
| Durum .....        | 63,981          |                 |
| <b>Total</b> ..... | 1,649,878       |                 |

## Hops Area Harvested by Variety – States and United States: 2022 and 2023

| State and variety                                | Area harvested | Strung for harvest |
|--|----------------|--------------------|
|  | 2022           | 2023               |
|  | (acres)        | (acres)            |
| <b>Idaho</b>                                     |                |                    |
| Amarillo <sup>®</sup> , VGXP01 .....             | 379            | 542                |
| Apollo <sup>™</sup> .....                        | (D)            | 209                |
| Cascade .....                                    | 845            | 720                |
| Cashmere .....                                   | 140            | 137                |
| Chinook .....                                    | 542            | 468                |
| Citra <sup>®</sup> , HBC 394 .....               | 1,767          | 965                |
| Columbus/Tomahawk <sup>®</sup> /Zeus (CTZ) ..... | 520            | 1,153              |
| Comet .....                                      | 144            | 106                |
| El Dorado <sup>®</sup> .....                     | 304            | 241                |
| Eureka! <sup>™</sup> .....                       | 419            | 527                |
| Hallertauer Mittelfruher .....                   | 159            | 159                |
| Idaho 7 <sup>®</sup> .....                       | 382            | 290                |
| Mosaic <sup>®</sup> , HBC 369 .....              | 1,440          | 1,072              |
| Mt. Rainier .....                                | 85             | 58                 |
| Saaz .....                                       | 380            | 380                |
| Simcoe <sup>®</sup> , YCR 14 .....               | 441            | 311                |
| Triumph .....                                    | 55             | (D)                |
| Willamette .....                                 | 459            | 459                |
| YQH 1320 .....                                   | (NA)           | 8                  |
| Other varieties <sup>1</sup> .....               | 806            | 1,027              |
| Total .....                                      | 9,267          | 8,832              |
| <b>Oregon</b>                                    |                |                    |
| Amarillo <sup>®</sup> , VGXP01 .....             | 210            | 215                |
| Cascade .....                                    | 658            | 622                |
| Centennial .....                                 | 380            | 393                |
| Chinook .....                                    | 90             | 76                 |
| Citra <sup>®</sup> , HBC 394 .....               | 1,691          | 1,457              |
| Crystal .....                                    | 191            | 201                |
| Liberty .....                                    | (D)            | 25                 |
| Mosaic <sup>®</sup> , HBC 369 .....              | 901            | 839                |
| Mt. Hood .....                                   | 171            | 198                |
| Mt. Rainier .....                                | 130            | 112                |
| Nugget .....                                     | 441            | 376                |
| Sabro <sup>™</sup> , HBC 438 .....               | 119            | (D)                |
| Simcoe <sup>®</sup> , YCR 14 .....               | 527            | 506                |
| Sterling .....                                   | 35             | 45                 |
| Strata <sup>™</sup> , OR91331 .....              | 1,143          | 853                |
| Tahoma .....                                     | (D)            | 104                |
| Talus <sup>™</sup> , HBC 692 .....               | 46             | (D)                |
| Willamette .....                                 | 471            | 481                |
| Other varieties <sup>1</sup> .....               | 552            | 390                |
| Total .....                                      | 7,756          | 6,893              |

See footnote(s) at end of table.

--continued

**Hops Area Harvested by Variety – States and United States: 2022 and 2023 (continued)**

| State and variety                                | Area harvested | Strung for harvest |
|--|----------------|--------------------|
|  | 2022           | 2023               |
|  | (acres)        | (acres)            |
| <b>Washington</b>                                |                |                    |
| Ahtanum <sup>R</sup> , YCR 1 .....               | 168            | (D)                |
| Amarillo <sup>R</sup> , VGXP01 .....             | 1,324          | 1,438              |
| Apollo <sup>TM</sup> .....                       | 807            | 804                |
| Azacca <sup>R</sup> , ADHA-483 .....             | 871            | 447                |
| Bravo <sup>TM</sup> .....                        | 203            | 206                |
| Cascade .....                                    | 3,604          | 2,978              |
| Cashmere .....                                   | 717            | 314                |
| Centennial .....                                 | 2,044          | 2,144              |
| Chinook .....                                    | 1,443          | 1,241              |
| Citra <sup>R</sup> , HBC 394 .....               | 8,586          | 6,340              |
| Cluster .....                                    | 286            | 195                |
| Columbus/Tomahawk <sup>R</sup> /Zeus (CTZ) ..... | 3,998          | 5,325              |
| Comet .....                                      | 327            | 205                |
| Crystal .....                                    | (D)            | 63                 |
| Ekuanot <sup>R</sup> , HBC 366 .....             | 367            | 373                |
| El Dorado <sup>R</sup> .....                     | 861            | 552                |
| Eureka! <sup>TM</sup> .....                      | 570            | 621                |
| Idaho 7 <sup>R</sup> .....                       | 158            | 154                |
| Loral <sup>R</sup> , HBC 291 .....               | 199            | 179                |
| Mosaic <sup>R</sup> , HBC 369 .....              | 4,160          | 3,246              |
| Mt. Hood .....                                   | 42             | 154                |
| Mt. Rainier .....                                | 212            | 212                |
| Pahto <sup>TM</sup> , HBC 682 .....              | 1,709          | 2,264              |
| Palisade <sup>R</sup> , YCR 4 .....              | 377            | 314                |
| Pekko <sup>R</sup> , ADHA-871 .....              | 1,084          | 1,032              |
| Sabro <sup>TM</sup> , HBC 438 .....              | 548            | 225                |
| Simcoe <sup>R</sup> , YCR 14 .....               | 3,494          | 3,412              |
| Super Galena <sup>TM</sup> .....                 | 354            | 354                |
| Tahoma .....                                     | 383            | 384                |
| Talus <sup>TM</sup> , HBC 692 .....              | 377            | 179                |
| Warrior <sup>R</sup> , YCR 5 .....               | 147            | 145                |
| Willamette .....                                 | 124            | 216                |
| YQH 1320 .....                                   | (NA)           | 62                 |
| Zappa <sup>TM</sup> .....                        | 69             | (D)                |
| Experimental .....                               | 702            | 740                |
| Other varieties <sup>1</sup> .....               | 2,447          | 2,475              |
| Total .....                                      | 42,762         | 38,993             |
| <b>United States<sup>2</sup></b> .....           | <b>59,785</b>  | <b>54,718</b>      |

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

<sup>R</sup> Registered

<sup>TM</sup> Trademark

<sup>1</sup> Includes data withheld to avoid disclosure of individual operations and varieties not listed.

<sup>2</sup> Includes 982 organic acres in 2022 and 772 organic acres in 2023.



## Utilized Production of Citrus Fruits by Crop – States and United States: 2021-2022 and Forecasted June 1, 2023

[The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year]

| Crop and State                               | Utilized production boxes <sup>1</sup> |               | Utilized production ton equivalent |              |
|--|--|---------------|------------------------------------|--------------|
|  | 2021-2022                              | 2022-2023     | 2021-2022                          | 2022-2023    |
|  | (1,000 boxes)                          | (1,000 boxes) | (1,000 tons)                       | (1,000 tons) |
| <b>Oranges</b>                               |  |               |                                    |              |
| California, all <sup>2</sup> .....           | 39,100                                 | 45,100        | 1,564                              | 1,804        |
| Early, mid, and Navel <sup>3</sup> .....     | 31,500                                 | 37,000        | 1,260                              | 1,480        |
| Valencia .....                               | 7,600                                  | 8,100         | 304                                | 324          |
| Florida, all .....                           | 41,200                                 | 15,750        | 1,854                              | 709          |
| Early, mid, and Navel <sup>3</sup> .....     | 18,250                                 | 6,150         | 821                                | 277          |
| Valencia .....                               | 22,950                                 | 9,600         | 1,033                              | 432          |
| Texas, all <sup>2</sup> .....                | 200                                    | 1,050         | 8                                  | 45           |
| Early, mid, and Navel <sup>3</sup> .....     | 170                                    | 700           | 7                                  | 30           |
| Valencia .....                               | 30                                     | 350           | 1                                  | 15           |
| United States, all .....                     | 80,500                                 | 61,900        | 3,426                              | 2,558        |
| Early, mid, and Navel <sup>3</sup> .....     | 49,920                                 | 43,850        | 2,088                              | 1,787        |
| Valencia .....                               | 30,580                                 | 18,050        | 1,338                              | 771          |
| <b>Grapefruit</b>                            |  |               |                                    |              |
| California <sup>2</sup> .....                | 4,100                                  | 4,200         | 164                                | 168          |
| Florida, all .....                           | 3,330                                  | 1,820         | 142                                | 77           |
| Texas <sup>2</sup> .....                     | 1,700                                  | 2,400         | 68                                 | 96           |
| United States .....                          | 9,130                                  | 8,420         | 374                                | 341          |
| <b>Tangerines and mandarins <sup>4</sup></b> |  |               |                                    |              |
| California <sup>2</sup> .....                | 17,500                                 | 21,000        | 700                                | 840          |
| Florida .....                                | 750                                    | 490           | 36                                 | 23           |
| United States .....                          | 18,250                                 | 21,490        | 736                                | 863          |
| <b>Lemons <sup>2</sup></b>                   |  |               |                                    |              |
| Arizona .....                                | 1,250                                  | 1,700         | 50                                 | 68           |
| California .....                             | 25,200                                 | 23,000        | 1,008                              | 920          |
| United States .....                          | 26,450                                 | 24,700        | 1,058                              | 988          |

<sup>1</sup> Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; tangerines and mandarins in California-80, Florida-95; lemons-80.

<sup>2</sup> Estimates for current year carried forward from an earlier forecast.

<sup>3</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

<sup>4</sup> Includes tangelos and tangors.

**Tart Cherry Production – States and United States: 2022 and Forecasted June 1, 2023**

| State               | Total production |                  |
|---------------------|------------------|------------------|
|                     | 2022             | 2023             |
|                     | (million pounds) | (million pounds) |
| Michigan .....      | 180.5            | 120.5            |
| New York .....      | (D)              | 8.4              |
| Utah .....          | 22.6             | 40.3             |
| Washington .....    | (D)              | 26.0             |
| Wisconsin .....     | 12.9             | 7.8              |
| Other States .....  | 28.2             | -                |
| United States ..... | 244.2            | 203.0            |

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

**Sweet Cherry Production – States and United States: 2022 and Forecasted June 1, 2023**

| State               | Total production |         |
|---------------------|------------------|---------|
|                     | 2022             | 2023    |
|                     | (tons)           | (tons)  |
| California .....    | 55,100           | 80,000  |
| Oregon .....        | 32,100           | 51,000  |
| Washington .....    | 144,500          | 240,000 |
| United States ..... | 231,700          | 371,000 |

## Maple Syrup Taps, Yield, and Production – States and United States: 2021-2023

| State               | Number of taps |              |              | Yield per tap |           |           | Production      |                 |                 |
|---------------------|----------------|--------------|--------------|---------------|-----------|-----------|-----------------|-----------------|-----------------|
|                     | 2021           | 2022         | 2023         | 2021          | 2022      | 2023      | 2021            | 2022            | 2023            |
|                     | (1,000 taps)   | (1,000 taps) | (1,000 taps) | (gallons)     | (gallons) | (gallons) | (1,000 gallons) | (1,000 gallons) | (1,000 gallons) |
| Maine .....         | 1,960          | 1,860        | 1,880        | 0.262         | 0.341     | 0.250     | 514             | 634             | 470             |
| Michigan .....      | 550            | 560          | 590          | 0.273         | 0.336     | 0.330     | 150             | 188             | 195             |
| New Hampshire ..... | 530            | 500          | 460          | 0.240         | 0.308     | 0.302     | 127             | 154             | 139             |
| New York .....      | 2,900          | 2,800        | 2,500        | 0.223         | 0.291     | 0.300     | 647             | 815             | 750             |
| Pennsylvania .....  | 745            | 710          | 675          | 0.226         | 0.219     | 0.263     | 168             | 155             | 178             |
| Vermont .....       | 6,500          | 6,650        | 6,350        | 0.269         | 0.384     | 0.322     | 1,750           | 2,554           | 2,045           |
| Wisconsin .....     | 900            | 920          | 985          | 0.406         | 0.481     | 0.408     | 365             | 443             | 402             |
| United States ..... | 14,085         | 14,000       | 13,440       | 0.264         | 0.353     | 0.311     | 3,721           | 4,943           | 4,179           |

## Maple Syrup Price and Value – States and United States: 2021-2023

[Blank data cells indicate estimation period has not yet begun]

| State               | Average price per gallon |           |                   | Value of production |                 |                   |
|---------------------|--------------------------|-----------|-------------------|---------------------|-----------------|-------------------|
|                     | 2021                     | 2022      | 2023 <sup>1</sup> | 2021                | 2022            | 2023 <sup>1</sup> |
|                     | (dollars)                | (dollars) | (dollars)         | (1,000 dollars)     | (1,000 dollars) | (1,000 dollars)   |
| Maine .....         | 38.60                    | 34.90     |                   | 19,840              | 22,127          |                   |
| Michigan .....      | 46.30                    | 37.10     |                   | 6,945               | 6,975           |                   |
| New Hampshire ..... | 64.90                    | 52.20     |                   | 8,242               | 8,039           |                   |
| New York .....      | 37.80                    | 37.50     |                   | 24,457              | 30,563          |                   |
| Pennsylvania .....  | 36.20                    | 34.90     |                   | 6,082               | 5,410           |                   |
| Vermont .....       | 32.00                    | 33.10     |                   | 56,000              | 84,537          |                   |
| Wisconsin .....     | 33.10                    | 31.40     |                   | 12,082              | 13,910          |                   |
| United States ..... | 35.90                    | 34.70     |                   | 133,648             | 171,561         |                   |

<sup>1</sup> Price and value for 2023 will be published in *Crop Production* released June 2024.

### Maple Syrup Sales by Type – States: 2021 and 2022

| State               | Retail          |                   | Wholesale       |                   | Bulk            |                   | Value Added     |                   |
|---------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|
|                     | 2021            | 2022 <sup>1</sup> | 2021            | 2022 <sup>1</sup> | 2021            | 2022 <sup>1</sup> | 2021            | 2022 <sup>1</sup> |
|                     | (1,000 gallons) | (1,000 gallons)   | (1,000 gallons) | (1,000 gallons)   | (1,000 gallons) | (1,000 gallons)   | (1,000 gallons) | (1,000 gallons)   |
| Maine .....         | (NA)            | 30                | (NA)            | 74                | (NA)            | 527               | (NA)            | 3                 |
| Michigan .....      | (NA)            | 59                | (NA)            | 68                | (NA)            | 52                | (NA)            | 9                 |
| New Hampshire ..... | (NA)            | 51                | (NA)            | 76                | (NA)            | 22                | (NA)            | 6                 |
| New York .....      | (NA)            | 171               | (NA)            | 158               | (NA)            | 447               | (NA)            | 38                |
| Pennsylvania .....  | (NA)            | 38                | (NA)            | 34                | (NA)            | 73                | (NA)            | 9                 |
| Vermont .....       | (NA)            | 235               | (NA)            | 197               | (NA)            | 2,092             | (NA)            | 31                |
| Wisconsin .....     | (NA)            | 35                | (NA)            | 76                | (NA)            | 330               | (NA)            | 2                 |
| United States ..... | (NA)            | 619               | (NA)            | 683               | (NA)            | 3,543             | (NA)            | 98                |

(NA) Not available.

<sup>1</sup> Estimates began in 2022.

### Maple Syrup Retail and Wholesale Price – States: 2021 and 2022

| State               | Retail               |                      | Wholesale            |                      |
|---------------------|----------------------|----------------------|----------------------|----------------------|
|                     | 2021                 | 2022 <sup>1</sup>    | 2021                 | 2022 <sup>1</sup>    |
|                     | (dollars per gallon) | (dollars per gallon) | (dollars per gallon) | (dollars per gallon) |
| Maine .....         | (NA)                 | 63.00                | (NA)                 | 39.60                |
| Michigan .....      | (NA)                 | 50.80                | (NA)                 | 31.90                |
| New Hampshire ..... | (NA)                 | 59.60                | (NA)                 | 54.90                |
| New York .....      | (NA)                 | 53.00                | (NA)                 | 43.60                |
| Pennsylvania .....  | (NA)                 | 45.40                | (NA)                 | 38.60                |
| Vermont .....       | (NA)                 | 54.00                | (NA)                 | 37.30                |
| Wisconsin .....     | (NA)                 | 52.70                | (NA)                 | 35.70                |
| United States ..... | (NA)                 | 53.70                | (NA)                 | 40.30                |

(NA) Not available.

<sup>1</sup> Estimates began in 2022.

## Maple Syrup Bulk Price – States: 2021 and 2022

| State               | Bulk all grades     |                     | Bulk all grades      |                      |
|---------------------|---------------------|---------------------|----------------------|----------------------|
|                     | 2021                | 2022                | 2021                 | 2022                 |
|                     | (dollars per pound) | (dollars per pound) | (dollars per gallon) | (dollars per gallon) |
| Maine .....         | 3.20                | 2.96                | 35.10                | 32.60                |
| Michigan .....      | 2.40                | 2.58                | 26.80                | 28.40                |
| New Hampshire ..... | 2.40                | 2.33                | 26.40                | 25.70                |
| New York .....      | 2.40                | 2.67                | 26.70                | 29.40                |
| Pennsylvania .....  | 2.50                | 2.51                | 27.60                | 27.70                |
| Vermont .....       | 2.60                | 2.75                | 28.30                | 30.30                |
| Wisconsin .....     | 2.50                | 2.56                | 27.40                | 28.20                |
| United States ..... | (NA)                | 2.70                | (NA)                 | 30.20                |

(NA) Not available.

## Maple Syrup Grade – States: 2021 and 2022

| State               | Grade A   |                   | Processing Grade |                   |
|---------------------|-----------|-------------------|------------------|-------------------|
|                     | 2021      | 2022 <sup>1</sup> | 2021             | 2022 <sup>1</sup> |
|                     | (gallons) | (gallons)         | (gallon)         | (gallon)          |
| Maine .....         | (NA)      | 586,199           | (NA)             | 44,801            |
| Michigan .....      | (NA)      | 165,217           | (NA)             | 13,783            |
| New Hampshire ..... | (NA)      | 137,080           | (NA)             | 11,920            |
| New York .....      | (NA)      | 739,528           | (NA)             | 36,472            |
| Pennsylvania .....  | (NA)      | 134,270           | (NA)             | 10,730            |
| Vermont .....       | (NA)      | 2,188,308         | (NA)             | 335,692           |
| Wisconsin .....     | (NA)      | 414,540           | (NA)             | 26,460            |
| United States ..... | (NA)      | 4,365,142         | (NA)             | 479,858           |

(NA) Not available.

<sup>1</sup> Estimates began in 2022.

## Maple Sap Sales and Price – States: 2021 and 2022

| State                           | Sap Sales       |                   | Sap Price            |                      |
|---------------------------------|-----------------|-------------------|----------------------|----------------------|
|                                 | 2021            | 2022 <sup>1</sup> | 2021                 | 2022 <sup>1</sup>    |
|                                 | (1,000 gallons) | (1,000 gallons)   | (dollars per gallon) | (dollars per gallon) |
| Maine .....                     | (NA)            | (D)               | (NA)                 | (D)                  |
| Michigan .....                  | (NA)            | (D)               | (NA)                 | (D)                  |
| New Hampshire .....             | (NA)            | 60                | (NA)                 | 0.27                 |
| New York .....                  | (NA)            | 794               | (NA)                 | 0.52                 |
| Pennsylvania .....              | (NA)            | 108               | (NA)                 | 0.35                 |
| Vermont .....                   | (NA)            | 4,634             | (NA)                 | 0.90                 |
| Wisconsin .....                 | (NA)            | 1,487             | (NA)                 | 0.29                 |
| Other States <sup>2</sup> ..... | (NA)            | 104               | (NA)                 | 1.55                 |
| United States .....             | (NA)            | 7,187             | (NA)                 | 0.70                 |

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

<sup>1</sup> Estimates began in 2022.

<sup>2</sup> Includes data withheld above.

### Maple Syrup Season – States and United States: 2021-2023

| State               | Date season opened <sup>1</sup> |        |                   | Date season closed <sup>2</sup> |        |                   | Average season length <sup>3</sup> |        |                   |
|---------------------|---------------------------------|--------|-------------------|---------------------------------|--------|-------------------|------------------------------------|--------|-------------------|
|                     | 2021                            | 2022   | 2023 <sup>4</sup> | 2021                            | 2022   | 2023 <sup>4</sup> | 2021                               | 2022   | 2023 <sup>4</sup> |
|                     | (date)                          | (date) | (date)            | (date)                          | (date) | (date)            | (days)                             | (days) | (days)            |
| Maine .....         | Feb 15                          | Feb 5  | (NA)              | Apr 30                          | May 30 | (NA)              | 31                                 | 36     | (NA)              |
| Michigan .....      | Feb 1                           | Feb 16 | (NA)              | Apr 14                          | Apr 30 | (NA)              | 25                                 | 30     | (NA)              |
| New Hampshire ..... | Jan 11                          | Feb 4  | (NA)              | Apr 16                          | Apr 28 | (NA)              | 26                                 | 36     | (NA)              |
| New York .....      | Jan 1                           | Jan 1  | (NA)              | May 4                           | May 2  | (NA)              | 29                                 | 33     | (NA)              |
| Pennsylvania .....  | Jan 4                           | Feb 4  | (NA)              | Apr 15                          | Apr 22 | (NA)              | 25                                 | 27     | (NA)              |
| Vermont .....       | Jan 25                          | Jan 1  | (NA)              | Apr 23                          | May 16 | (NA)              | 28                                 | 40     | (NA)              |
| Wisconsin .....     | Feb 20                          | Feb 20 | (NA)              | Apr 10                          | May 3  | (NA)              | 25                                 | 34     | (NA)              |
| United States ..... | (NA)                            | (NA)   | (NA)              | (NA)                            | (NA)   | (NA)              | 27                                 | 34     | (NA)              |

(NA) Not available.

<sup>1</sup> Approximately the first day that sap was collected.

<sup>2</sup> Approximately the last day that sap was collected.

<sup>3</sup> The average number of days that sap was collected.

<sup>4</sup> Estimates discontinued beginning in 2023.

### Maple Syrup Average Open and Close Season Dates – States and United States: 2021-2023

| State               | Season Opened <sup>1</sup> |        |                   | Season Closed <sup>2</sup> |        |                   |
|---------------------|----------------------------|--------|-------------------|----------------------------|--------|-------------------|
|                     | 2021                       | 2022   | 2023 <sup>3</sup> | 2021                       | 2022   | 2023 <sup>3</sup> |
|                     | (date)                     | (date) | (date)            | (date)                     | (date) | (date)            |
| Maine .....         | Mar 6                      | Mar 4  | (NA)              | Apr 6                      | Apr 9  | (NA)              |
| Michigan .....      | Mar 2                      | Mar 9  | (NA)              | Mar 28                     | Apr 8  | (NA)              |
| New Hampshire ..... | Mar 6                      | Feb 27 | (NA)              | Apr 1                      | Apr 4  | (NA)              |
| New York .....      | Mar 4                      | Feb 28 | (NA)              | Apr 2                      | Apr 2  | (NA)              |
| Pennsylvania .....  | Feb 27                     | Feb 24 | (NA)              | Mar 24                     | Mar 23 | (NA)              |
| Vermont .....       | Mar 8                      | Feb 28 | (NA)              | Apr 5                      | Apr 9  | (NA)              |
| Wisconsin .....     | Mar 6                      | Mar 18 | (NA)              | Mar 31                     | Apr 20 | (NA)              |
| United States ..... | (NA)                       | (NA)   | (NA)              | (NA)                       | (NA)   | (NA)              |

(NA) Not available.

<sup>1</sup> Approximate average opened date based on reported data.

<sup>2</sup> Approximate average closed date based on reported data.

<sup>3</sup> Estimates discontinued beginning in 2023.

### Maple Syrup Price by Type of Sale and Size of Container – States: 2021 and 2022

| Type and State      | Gallon    |                   | 1/2 Gallon |                   | Quart     |                   | Pint      |                   | 1/2 Pint  |                   |
|---------------------|-----------|-------------------|------------|-------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|
|                     | 2021      | 2022 <sup>1</sup> | 2021       | 2022 <sup>1</sup> | 2021      | 2022 <sup>1</sup> | 2021      | 2022 <sup>1</sup> | 2021      | 2022 <sup>1</sup> |
|                     | (dollars) | (dollars)         | (dollars)  | (dollars)         | (dollars) | (dollars)         | (dollars) | (dollars)         | (dollars) | (dollars)         |
| <b>Retail</b>       |           |                   |            |                   |           |                   |           |                   |           |                   |
| Maine .....         | 61.40     | (NA)              | 32.70      | (NA)              | 18.10     | (NA)              | 10.60     | (NA)              | 6.50      | (NA)              |
| Michigan .....      | 47.70     | (NA)              | 28.40      | (NA)              | 14.70     | (NA)              | 9.60      | (NA)              | 6.80      | (NA)              |
| New Hampshire ..... | 65.50     | (NA)              | 35.10      | (NA)              | 19.90     | (NA)              | 11.40     | (NA)              | 7.50      | (NA)              |
| New York .....      | 45.60     | (NA)              | 25.20      | (NA)              | 17.00     | (NA)              | 9.60      | (NA)              | 5.70      | (NA)              |
| Pennsylvania .....  | 41.30     | (NA)              | 24.30      | (NA)              | 14.20     | (NA)              | 8.85      | (NA)              | 5.00      | (NA)              |
| Vermont .....       | 46.30     | (NA)              | 27.80      | (NA)              | 16.20     | (NA)              | 11.40     | (NA)              | 7.10      | (NA)              |
| Wisconsin .....     | 45.20     | (NA)              | 26.30      | (NA)              | 14.60     | (NA)              | 8.80      | (NA)              | 6.00      | (NA)              |
| <b>Wholesale</b>    |           |                   |            |                   |           |                   |           |                   |           |                   |
| Maine .....         | 48.30     | (NA)              | 24.80      | (NA)              | 14.50     | (NA)              | 7.90      | (NA)              | (D)       | (NA)              |
| Michigan .....      | 37.60     | (NA)              | 24.90      | (NA)              | 14.60     | (NA)              | 8.50      | (NA)              | 5.70      | (NA)              |
| New Hampshire ..... | 48.20     | (NA)              | 28.80      | (NA)              | 14.20     | (NA)              | 8.25      | (NA)              | (D)       | (NA)              |
| New York .....      | 41.50     | (NA)              | 23.80      | (NA)              | 14.10     | (NA)              | 9.10      | (NA)              | 4.60      | (NA)              |
| Pennsylvania .....  | 39.80     | (NA)              | 20.30      | (NA)              | 13.40     | (NA)              | 7.90      | (NA)              | 4.40      | (NA)              |
| Vermont .....       | 37.90     | (NA)              | 22.30      | (NA)              | 13.80     | (NA)              | 8.50      | (NA)              | 5.10      | (NA)              |
| Wisconsin .....     | 40.70     | (NA)              | 25.70      | (NA)              | 13.20     | (NA)              | 7.50      | (NA)              | 4.60      | (NA)              |

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

<sup>1</sup> Estimates discontinued beginning in 2022.

### Maple Syrup Percent of Sales by Type – States: 2021 and 2022

| State               | Retail    |                   | Wholesale |                   | Bulk      |                   |
|---------------------|-----------|-------------------|-----------|-------------------|-----------|-------------------|
|                     | 2021      | 2022 <sup>1</sup> | 2021      | 2022 <sup>1</sup> | 2021      | 2022 <sup>1</sup> |
|                     | (percent) | (percent)         | (percent) | (percent)         | (percent) | (percent)         |
| Maine .....         | 6         | (NA)              | 12        | (NA)              | 82        | (NA)              |
| Michigan .....      | 27        | (NA)              | 15        | (NA)              | 58        | (NA)              |
| New Hampshire ..... | 71        | (NA)              | 14        | (NA)              | 15        | (NA)              |
| New York .....      | 24        | (NA)              | 13        | (NA)              | 63        | (NA)              |
| Pennsylvania .....  | 30        | (NA)              | 14        | (NA)              | 56        | (NA)              |
| Vermont .....       | 10        | (NA)              | 4         | (NA)              | 86        | (NA)              |
| Wisconsin .....     | 13        | (NA)              | 5         | (NA)              | 82        | (NA)              |

(NA) Not available.

<sup>1</sup> Estimates discontinued beginning in 2022.

**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:  
2022 and 2023**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

| Crop                                    | Area planted  |               | Area harvested |               |
|---|---------------|---------------|----------------|---------------|
|   | 2022          | 2023          | 2022           | 2023          |
|   | (1,000 acres) | (1,000 acres) | (1,000 acres)  | (1,000 acres) |
| <b>Grains and hay</b>                   |               |               |                |               |
| Barley .....                            | 2,945         | 2,922         | 2,433          |               |
| Corn for grain <sup>1</sup> .....       | 88,579        | 91,996        | 79,207         |               |
| Corn for silage .....                   | (NA)          |               | 6,860          |               |
| Hay, all .....                          | (NA)          | (NA)          | 49,546         | 50,645        |
| Alfalfa .....                           | (NA)          |               | 14,913         |               |
| All other .....                         | (NA)          |               | 34,633         |               |
| Oats .....                              | 2,581         | 2,667         | 890            |               |
| Proso millet .....                      | 637           |               | 507            |               |
| Rice .....                              | 2,222         | 2,583         | 2,172          |               |
| Rye .....                               | 2,175         |               | 341            |               |
| Sorghum for grain <sup>1</sup> .....    | 6,325         | 5,975         | 4,570          |               |
| Sorghum for silage .....                | (NA)          |               | 525            |               |
| Wheat, all .....                        | 45,738        | 49,855        | 35,480         |               |
| Winter .....                            | 33,271        | 37,505        | 23,459         | 25,286        |
| Durum .....                             | 1,632         | 1,780         | 1,581          |               |
| Other spring .....                      | 10,835        | 10,570        | 10,440         |               |
| <b>Oilseeds</b>                         |               |               |                |               |
| Canola .....                            | 2,213.0       | 2,270.0       | 2,169.0        |               |
| Cottonseed .....                        | (X)           |               | (X)            |               |
| Flaxseed .....                          | 263           | 175           | 244            |               |
| Mustard seed .....                      | 221.0         |               | 182.0          |               |
| Peanuts .....                           | 1,450.3       | 1,547.0       | 1,385.4        |               |
| Rapeseed .....                          | 10.9          |               | 10.4           |               |
| Safflower .....                         | 150.2         |               | 135.3          |               |
| Soybeans for beans .....                | 87,450        | 87,505        | 86,336         |               |
| Sunflower .....                         | 1,693.0       | 1,361.0       | 1,607.0        |               |
| <b>Cotton, tobacco, and sugar crops</b> |               |               |                |               |
| Cotton, all .....                       | 13,761.0      | 11,256.0      | 7,307.7        |               |
| Upland .....                            | 13,579.0      | 11,102.0      | 7,131.5        |               |
| American Pima .....                     | 182.0         | 154.0         | 176.2          |               |
| Sugarbeets .....                        | 1,159.5       | 1,110.8       | 1,137.1        |               |
| Sugarcane .....                         | (NA)          |               | 930.2          |               |
| Tobacco .....                           | (NA)          | (NA)          | 201.8          | 197.1         |
| <b>Dry beans, peas, and lentils</b>     |               |               |                |               |
| Chickpeas .....                         | 353.1         | 340.5         | 341.9          |               |
| Dry edible beans .....                  | 1,250.0       | 1,226.0       | 1,223.0        |               |
| Dry edible peas .....                   | 919.0         | 1,000.0       | 862.0          |               |
| Lentils .....                           | 660.0         | 519.0         | 602.0          |               |
| <b>Potatoes and miscellaneous</b>       |               |               |                |               |
| Hops .....                              | (NA)          | (NA)          | 59.8           | 54.7          |
| Maple syrup .....                       | (NA)          | (NA)          | (NA)           | (NA)          |
| Mushrooms .....                         | (NA)          |               | (NA)           |               |
| Peppermint oil .....                    | (NA)          |               | 34.0           |               |
| Potatoes .....                          | 901.0         |               | 895.6          |               |
| Spearmint oil .....                     | (NA)          |               | 13.7           |               |

See footnote(s) at end of table.

--continued



**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

| Crop                                    | Yield per acre |       | Production      |                 |
|---|----------------|-------|-----------------|-----------------|
|   | 2022           | 2023  | 2022<br>(1,000) | 2023<br>(1,000) |
| <b>Grains and hay</b>                   |                |       |                 |                 |
| Barley .....                            | bushels        | 71.7  | 174,333         |                 |
| Corn for grain .....                    | bushels        | 173.3 | 13,729,719      |                 |
| Corn for silage .....                   | tons           | 18.7  | 128,567         |                 |
| Hay, all .....                          | tons           | 2.28  | 112,801         |                 |
| Alfalfa .....                           | tons           | 3.22  | 47,958          |                 |
| All other .....                         | tons           | 1.87  | 64,843          |                 |
| Oats .....                              | bushels        | 64.8  | 57,655          |                 |
| Proso millet .....                      | bushels        | 18.5  | 9,403           |                 |
| Rice <sup>2</sup> .....                 | cwt            | 7,383 | 160,368         |                 |
| Rye .....                               | bushels        | 36.1  | 12,301          |                 |
| Sorghum for grain .....                 | bushels        | 41.1  | 187,785         |                 |
| Sorghum for silage .....                | tons           | 10.8  | 5,662           |                 |
| Wheat, all .....                        | bushels        | 46.5  | 1,649,878       |                 |
| Winter .....                            | bushels        | 47.0  | 1,103,707       | 1,136,465       |
| Durum .....                             | bushels        | 40.5  | 63,981          |                 |
| Other spring .....                      | bushels        | 46.2  | 482,190         |                 |
| <b>Oilseeds</b>                         |                |       |                 |                 |
| Canola .....                            | pounds         | 1,762 | 3,821,810       |                 |
| Cottonseed .....                        | tons           | (X)   | 4,415.0         |                 |
| Flaxseed .....                          | bushels        | 17.6  | 4,304           |                 |
| Mustard seed .....                      | pounds         | 557   | 101,290         |                 |
| Peanuts .....                           | pounds         | 4,019 | 5,568,150       |                 |
| Rapeseed .....                          | pounds         | 1,863 | 19,380          |                 |
| Safflower .....                         | pounds         | 1,213 | 164,054         |                 |
| Soybeans for beans .....                | bushels        | 49.5  | 4,276,123       |                 |
| Sunflower .....                         | pounds         | 1,750 | 2,812,540       |                 |
| <b>Cotton, tobacco, and sugar crops</b> |                |       |                 |                 |
| Cotton, all <sup>2</sup> .....          | bales          | 950   | 14,468.0        |                 |
| Upland <sup>2</sup> .....               | bales          | 942   | 13,998.0        |                 |
| American Pima <sup>2</sup> .....        | bales          | 1,280 | 470.0           |                 |
| Sugarbeets .....                        | tons           | 28.6  | 32,574          |                 |
| Sugarcane .....                         | tons           | 37.3  | 34,671          |                 |
| Tobacco .....                           | pounds         | 2,217 | 447,367         |                 |
| <b>Dry beans, peas, and lentils</b>     |                |       |                 |                 |
| Chickpeas <sup>2</sup> .....            | cwt            | 1,070 | 3,658           |                 |
| Dry edible beans <sup>2</sup> .....     | cwt            | 2,113 | 25,847          |                 |
| Dry edible peas <sup>2</sup> .....      | cwt            | 1,751 | 15,092          |                 |
| Lentils <sup>2</sup> .....              | cwt            | 912   | 5,489           |                 |
| <b>Potatoes and miscellaneous</b>       |                |       |                 |                 |
| Hops .....                              | pounds         | 1,694 | 101,286.3       |                 |
| Maple syrup .....                       | gallons        | (NA)  | 4,943           | 4,179           |
| Mushrooms .....                         | pounds         | (NA)  | 702,391         |                 |
| Peppermint oil .....                    | pounds         | 99    | 3,349           |                 |
| Potatoes .....                          | cwt            | 438   | 392,243         |                 |
| Spearmint oil .....                     | pounds         | 120   | 1,648           |                 |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Yield in pounds.

## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

| Crop                                    | Area planted |            | Area harvested |            |
|---|--------------|------------|----------------|------------|
|   | 2022         | 2023       | 2022           | 2023       |
|   | (hectares)   | (hectares) | (hectares)     | (hectares) |
| <b>Grains and hay</b>                   |              |            |                |            |
| Barley .....                            | 1,191,810    | 1,182,500  | 984,610        |            |
| Corn for grain <sup>1</sup> .....       | 35,847,040   | 37,229,860 | 32,054,280     |            |
| Corn for silage .....                   | (NA)         |            | 2,776,170      |            |
| Hay, all <sup>2</sup> .....             | (NA)         | (NA)       | 20,050,770     | 20,495,530 |
| Alfalfa .....                           | (NA)         |            | 6,035,140      |            |
| All other .....                         | (NA)         |            | 14,015,630     |            |
| Oats .....                              | 1,044,500    | 1,079,310  | 360,170        |            |
| Proso millet .....                      | 257,790      |            | 205,180        |            |
| Rice .....                              | 899,220      | 1,045,310  | 878,990        |            |
| Rye .....                               | 880,200      |            | 138,000        |            |
| Sorghum for grain <sup>1</sup> .....    | 2,559,660    | 2,418,020  | 1,849,430      |            |
| Sorghum for silage .....                | (NA)         |            | 212,460        |            |
| Wheat, all <sup>2</sup> .....           | 18,509,710   | 20,175,820 | 14,358,400     | 10,232,990 |
| Winter .....                            | 13,464,440   | 15,177,900 | 9,493,620      |            |
| Durum .....                             | 660,450      | 720,350    | 639,810        |            |
| Other spring .....                      | 4,384,820    | 4,277,570  | 4,224,960      |            |
| <b>Oilseeds</b>                         |              |            |                |            |
| Canola .....                            | 895,580      | 918,650    | 877,770        |            |
| Cottonseed .....                        | (X)          |            | (X)            |            |
| Flaxseed .....                          | 106,430      | 70,820     | 98,740         |            |
| Mustard seed .....                      | 89,440       |            | 73,650         |            |
| Peanuts .....                           | 586,920      | 626,060    | 560,660        |            |
| Rapeseed .....                          | 4,410        |            | 4,210          |            |
| Safflower .....                         | 60,780       |            | 54,750         |            |
| Soybeans for beans .....                | 35,390,140   | 35,412,400 | 34,939,320     |            |
| Sunflower .....                         | 685,140      | 550,780    | 650,340        |            |
| <b>Cotton, tobacco, and sugar crops</b> |              |            |                |            |
| Cotton, all <sup>2</sup> .....          | 5,568,940    | 4,555,190  | 2,957,350      |            |
| Upland .....                            | 5,495,290    | 4,492,870  | 2,886,050      |            |
| American Pima .....                     | 73,650       | 62,320     | 71,310         |            |
| Sugarbeets .....                        | 469,240      | 449,530    | 460,170        |            |
| Sugarcane .....                         | (NA)         |            | 376,440        |            |
| Tobacco .....                           | (NA)         | (NA)       | 81,650         | 79,750     |
| <b>Dry beans, peas, and lentils</b>     |              |            |                |            |
| Chickpeas .....                         | 142,900      | 137,800    | 138,360        |            |
| Dry edible beans .....                  | 505,860      | 496,150    | 494,940        |            |
| Dry edible peas .....                   | 371,910      | 404,690    | 348,840        |            |
| Lentils .....                           | 267,100      | 210,030    | 243,620        |            |
| <b>Potatoes and miscellaneous</b>       |              |            |                |            |
| Hops .....                              | (NA)         | (NA)       | 24,190         | 22,140     |
| Maple syrup .....                       | (NA)         | (NA)       | (NA)           | (NA)       |
| Mushrooms .....                         | (NA)         |            | (NA)           |            |
| Peppermint oil .....                    | (NA)         |            | 13,760         |            |
| Potatoes .....                          | 364,630      |            | 362,440        |            |
| Spearmint oil .....                     | (NA)         |            | 5,540          |            |

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

| Crop                                    | Yield per hectare |               | Production    |               |
|---|-------------------|---------------|---------------|---------------|
|   | 2022              | 2023          | 2022          | 2023          |
|   | (metric tons)     | (metric tons) | (metric tons) | (metric tons) |
| <b>Grains and hay</b>                   |                   |               |               |               |
| Barley .....                            | 3.85              |               | 3,795,650     |               |
| Corn for grain .....                    | 10.88             |               | 348,750,930   |               |
| Corn for silage .....                   | 42.01             |               | 116,634,020   |               |
| Hay, all <sup>2</sup> .....             | 5.10              |               | 102,331,350   |               |
| Alfalfa .....                           | 7.21              |               | 43,506,770    |               |
| All other .....                         | 4.20              |               | 58,824,580    |               |
| Oats .....                              | 2.32              |               | 836,860       |               |
| Proso millet .....                      | 1.04              |               | 213,260       |               |
| Rice .....                              | 8.28              |               | 7,274,170     |               |
| Rye .....                               | 2.26              |               | 312,460       |               |
| Sorghum for grain .....                 | 2.58              |               | 4,769,960     |               |
| Sorghum for silage .....                | 24.18             |               | 5,136,480     |               |
| Wheat, all <sup>2</sup> .....           | 3.13              |               | 44,902,320    |               |
| Winter .....                            | 3.16              | 3.02          | 30,037,980    | 30,929,510    |
| Durum .....                             | 2.72              |               | 1,741,280     |               |
| Other spring .....                      | 3.11              |               | 13,123,060    |               |
| <b>Oilseeds</b>                         |                   |               |               |               |
| Canola .....                            | 1.97              |               | 1,733,540     |               |
| Cottonseed .....                        | (X)               |               | 4,005,220     |               |
| Flaxseed .....                          | 1.11              |               | 109,330       |               |
| Mustard seed .....                      | 0.62              |               | 45,940        |               |
| Peanuts .....                           | 4.50              |               | 2,525,670     |               |
| Rapeseed .....                          | 2.09              |               | 8,790         |               |
| Safflower .....                         | 1.36              |               | 74,410        |               |
| Soybeans for beans .....                | 3.33              |               | 116,377,000   |               |
| Sunflower .....                         | 1.96              |               | 1,275,750     |               |
| <b>Cotton, tobacco, and sugar crops</b> |                   |               |               |               |
| Cotton, all <sup>2</sup> .....          | 1.07              |               | 3,150,040     |               |
| Upland .....                            | 1.06              |               | 3,047,710     |               |
| American Pima .....                     | 1.44              |               | 102,330       |               |
| Sugarbeets .....                        | 64.22             |               | 29,550,640    |               |
| Sugarcane .....                         | 83.55             |               | 31,453,000    |               |
| Tobacco .....                           | 2.49              |               | 202,920       |               |
| <b>Dry beans, peas, and lentils</b>     |                   |               |               |               |
| Chickpeas .....                         | 1.20              |               | 165,920       |               |
| Dry edible beans .....                  | 2.37              |               | 1,172,400     |               |
| Dry edible peas .....                   | 1.96              |               | 684,560       |               |
| Lentils .....                           | 1.02              |               | 248,980       |               |
| <b>Potatoes and miscellaneous</b>       |                   |               |               |               |
| Hops .....                              | 1.90              |               | 45,940        |               |
| Maple syrup .....                       | (NA)              | (NA)          | 24,720        | 20,900        |
| Mushrooms .....                         | (NA)              |               | 318,600       |               |
| Peppermint oil .....                    | 0.11              |               | 1,520         |               |
| Potatoes .....                          | 49.09             |               | 17,791,840    |               |
| Spearmint oil .....                     | 0.13              |               | 750           |               |

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

## Fruits and Nuts Production in Domestic Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

| Crop                                 | Production     |           |           |
|--------------------------------------|----------------|-----------|-----------|
|                                      | 2022           | 2023      |           |
| <b>Citrus</b> <sup>1</sup>           |                |           |           |
| Grapefruit .....                     | 1,000 tons     | 374       | 341       |
| Lemons .....                         | 1,000 tons     | 1,058     | 988       |
| Oranges .....                        | 1,000 tons     | 3,426     | 2,558     |
| Tangerines and mandarins .....       | 1,000 tons     | 736       | 863       |
| <b>Noncitrus</b>                     |                |           |           |
| Apples, commercial .....             | million pounds | 9,765.0   |           |
| Apricots .....                       | tons           | 29,640    |           |
| Avocados .....                       | tons           | 156,900   |           |
| Blueberries, Cultivated .....        | 1,000 pounds   | 621,600   |           |
| Blueberries, Wild (Maine) .....      | 1,000 pounds   | 77,600    |           |
| Cherries, Sweet .....                | tons           | 231,700   | 371,000   |
| Cherries, Tart .....                 | million pounds | 244.2     | 203.0     |
| Coffee (Hawaii) .....                | 1,000 pounds   | 25,690    |           |
| Cranberries .....                    | barrel         | 8,058,000 |           |
| Dates .....                          | tons           | 66,150    |           |
| Grapes .....                         | tons           | 5,922,500 |           |
| Kiwifruit (California) .....         | tons           | 36,500    |           |
| Nectarines (California) .....        | tons           | 109,000   |           |
| Olives (California) .....            | tons           | 69,700    |           |
| Papayas (Hawaii) .....               | 1,000 pounds   | 8,350     |           |
| Peaches .....                        | tons           | 625,680   |           |
| Pears .....                          | tons           | 644,000   |           |
| Plums (California) .....             | tons           | 81,300    |           |
| Prunes (California) .....            | tons           | 226,800   |           |
| Raspberries .....                    | 1,000 pounds   | 168,600   |           |
| Strawberries .....                   | 1,000 cwt      | 27,820.0  |           |
| <b>Nuts and miscellaneous</b>        |                |           |           |
| Almonds, shelled (California) .....  | 1,000 pounds   | 2,565,000 | 2,500,000 |
| Hazelnuts, in-shell (Oregon) .....   | tons           | 77,500    |           |
| Macadamias (Hawaii) .....            | 1,000 pounds   | 37,700    |           |
| Pecans, in-shell .....               | 1,000 pounds   | 277,700   |           |
| Pistachios (California) .....        | 1,000 pounds   | 882,000   |           |
| Walnuts, in-shell (California) ..... | tons           | 752,000   |           |

<sup>1</sup> Production years are 2021-2022 and 2022-2023.

## Fruits and Nuts Production in Metric Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

| Crop                                 | Production            |                       |
|--------------------------------------|-----------------------|-----------------------|
|                                      | 2022<br>(metric tons) | 2023<br>(metric tons) |
| <b>Citrus<sup>1</sup></b>            |                       |                       |
| Grapefruit .....                     | 339,290               | 309,350               |
| Lemons .....                         | 959,800               | 896,300               |
| Oranges .....                        | 3,108,010             | 2,320,580             |
| Tangerines and mandarins .....       | 667,690               | 782,900               |
| <b>Noncitrus</b>                     |                       |                       |
| Apples, commercial .....             | 4,429,330             |                       |
| Apricots .....                       | 26,890                |                       |
| Avocados .....                       | 142,340               |                       |
| Blueberries, Cultivated .....        | 281,950               |                       |
| Blueberries, Wild (Maine) .....      | 35,200                |                       |
| Cherries, Sweet .....                | 210,190               | 336,570               |
| Cherries, Tart .....                 | 110,770               | 92,080                |
| Coffee (Hawaii) .....                | 11,650                |                       |
| Cranberries .....                    | 365,500               |                       |
| Dates .....                          | 60,010                |                       |
| Grapes .....                         | 5,372,800             |                       |
| Kiwifruit (California) .....         | 33,110                |                       |
| Nectarines (California) .....        | 98,880                |                       |
| Olives (California) .....            | 63,230                |                       |
| Papayas (Hawaii) .....               | 3,790                 |                       |
| Peaches .....                        | 567,610               |                       |
| Pears .....                          | 584,230               |                       |
| Plums (California) .....             | 73,750                |                       |
| Prunes (California) .....            | 205,750               |                       |
| Raspberries .....                    | 76,480                |                       |
| Strawberries .....                   | 1,261,890             |                       |
| <b>Nuts and miscellaneous</b>        |                       |                       |
| Almonds, shelled (California) .....  | 1,163,460             | 1,133,980             |
| Hazelnuts, in-shell (Oregon) .....   | 70,310                |                       |
| Macadamias (Hawaii) .....            | 17,100                |                       |
| Pecans, in-shell .....               | 125,960               |                       |
| Pistachios (California) .....        | 400,070               |                       |
| Walnuts, in-shell (California) ..... | 682,200               |                       |

<sup>1</sup> Production years are 2021-2022 and 2022-2023.

## Winter Wheat for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 winter wheat-producing States during 2023. Randomly selected plots in winter wheat for grain fields are visited monthly from May through harvest to obtain specific counts and measurements. Data in this table are based on counts from this survey.

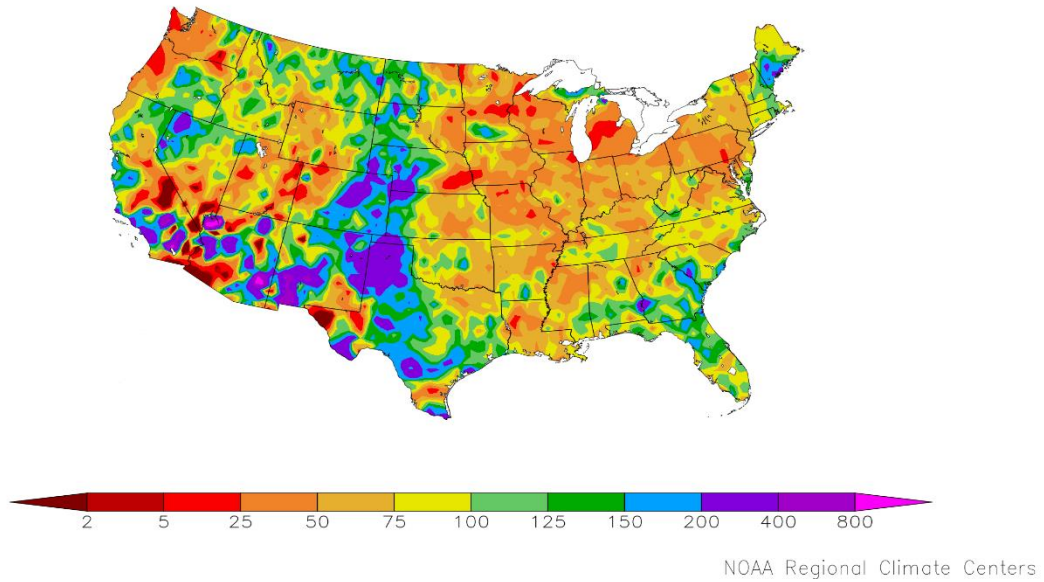
### Winter Wheat Objective Yield Percent of Samples Processed in the Lab – United States: 2019-2023

[Blank data cells indicate estimation period has not yet begun]

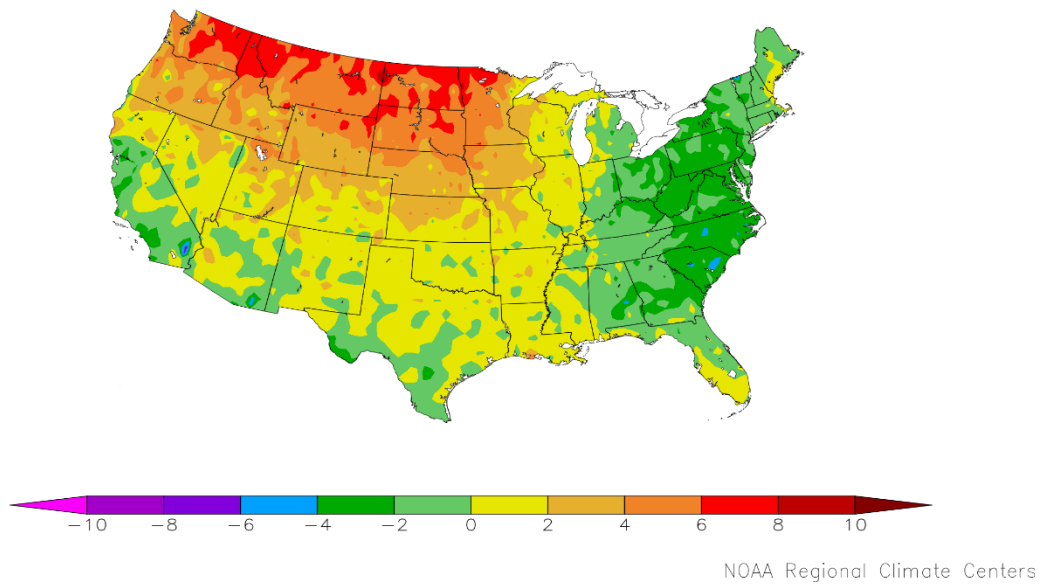
| Year       | June                | July                | August              |
|------------|---------------------|---------------------|---------------------|
|            | Mature <sup>1</sup> | Mature <sup>1</sup> | Mature <sup>1</sup> |
|            | (percent)           | (percent)           | (percent)           |
| 2019 ..... | 8                   | 50                  | 89                  |
| 2020 ..... | 14                  | 64                  | 92                  |
| 2021 ..... | 7                   | 64                  | 97                  |
| 2022 ..... | 14                  | 64                  | 91                  |
| 2023 ..... | 9                   |                     |                     |

<sup>1</sup> Includes winter wheat in the hard dough stage or beyond and are considered mature or almost mature.

Percent of Normal Precipitation (%)  
5/1/2023 – 5/31/2023



Departure from Normal Temperature (F)  
5/1/2023 – 5/31/2023



## May Weather Summary

During May, atmospheric blocking resulted in unusual warmth across the North, especially from the Pacific Northwest into the Upper Midwest. In fact, it was the warmest May on record in some Pacific Northwestern locations, fueled by an early-season heat wave peaking from May 11-20. Monthly temperatures averaged at least 5°F above normal as far east as Minnesota. In contrast, cooler-than-normal conditions dominated the East, particularly the middle Atlantic States.

The same blocking high-pressure system responsible for the Northern warmth contributed to record-shattering dryness in parts of the Midwest and Northeast. Monthly rainfall totaling less than one-quarter inch marked the lowest May values on record in locations such as Omaha, Nebraska (0.17 inch), and Reading Pennsylvania (0.09 inch). By May 28, topsoil moisture rated very short to short by USDA/NASS climbed to 80 percent in Pennsylvania and 78 percent in Maryland. On the same date, topsoil moisture was rated at least 40 percent very short to short in all Midwestern States except Minnesota and North Dakota, led by Michigan (68 percent) and Missouri (62 percent). The Northern warmth and dryness promoted a rapid fieldwork pace, following earlier planting delays related to melting snow and low air and soil temperatures. For example, nearly all the northern Plains' sugarbeets were seeded in the 2-week period ending May 21, with North Dakota's planting progress advancing from 1 to 90 percent complete.

Meanwhile, copious rain fell on the High Plains from Montana to Texas, especially during the mid- to late-month period. Borger, Texas, experienced its wettest month and May on record, with 9.70 inches—a value boosted by totals of at least an inch on May 3, 14, 17, and 18. On the strength of the Plains' rain, drought coverage in the contiguous United States fell to 18.95 percent by May 30, down from 24.42 percent early in the month and 62.95 percent on October 25, 2022. Despite the improvement, a core drought area persisted across much of Kansas, eastern Nebraska, and the northwestern half of Oklahoma. According to the *Drought Monitor*, Kansas led the Nation on May 30 with nearly 57 percent of the state experiencing extreme to exceptional drought (D3 to D4). Correspondingly, Kansas led the Nation on May 28 with 51 percent of its rangeland and pastures rated very poor to poor, followed by Nebraska at 43 percent. Additionally, late-spring rainfall on the central and southern Plains largely arrived too late to benefit winter wheat. On May 28, more than two-thirds (69 percent) of the winter wheat in Kansas was rated in very poor to poor condition, followed by Nebraska (51 percent) and Texas (40 percent).

Farther west, recovery from a drought that lasted up to 3 years neared completion, aside from storage in larger reservoirs. By May 30, only 17 percent of the 11-state Western region was experiencing drought, down from nearly 74 percent as recently as early-November 2022. In California, runoff from earlier precipitation and melting snow led to ongoing flooding in the normally dry Tulare Lake basin, idling agricultural land and flooding low-lying communities in portions of the San Joaquin Valley. By the end of May, approximately one-third of the Sierra Nevada snowpack—containing more than 20 inches of liquid equivalency—had not yet melted, portending additional challenges for Western water managers contending with this year's heavy runoff. Meanwhile along the Colorado River, the surface elevation of Lake Mead—above Hoover Dam—rose to 1,054.28 feet by the end of May, up 13.36 feet from the end-of-month record low set on July 31, 2022. Farther north, however, patchy short-term drought began to re-emerge during May across roughly the northern one-third of the West, amid warmer-than-normal conditions. Some of the dryness was reflected by Oregon's statistics, which indicated that topsoil moisture was rated 60 percent very short to short by May 28. Elsewhere, much of the Deep South received ample rain during May, maintaining generally favorable conditions for pastures and summer crops. In fact, some previously dry areas, including Florida's peninsula, received beneficial May rainfall.

## May Agricultural Summary

Except for the Nation's East and Southwest, May was warmer than average. Parts of the Upper Midwest, Pacific Northwest, Northern Plains, and Northern Rockies recorded temperatures 6°F or more above normal. In contrast, locations in Alabama, Southern Arizona, Southern California, and the Carolinas recorded temperatures 4°F or more below normal. While most of the eastern half of the Nation remained drier than normal, at least twice the normal amount of rainfall was recorded in parts of the Great Basin, Great Plains, and Southwest, as well as locations in Maine and the Southeast. Locations in the Great Plains recorded 8 inches or more of rain for the month.

By May 7, producers had planted 49 percent of the Nation's corn crop, 28 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Twelve percent of the Nation's corn acreage had emerged by May 7,



seven percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. By May 21, producers had planted 81 percent of the Nation's corn crop, 12 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Fifty-two percent of the Nation's corn acreage had emerged by May 21, seventeen percentage points ahead of the previous year and 7 percentage points ahead of the 5-year average. By June 4, producers had planted 96 percent of the Nation's corn crop, 3 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. At that time, corn planting progress was equal to or ahead of the 5-year average in 17 of the 18 estimating States. Eighty-five percent of the Nation's corn acreage had emerged by June 4, nine percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. On June 4, sixty-four percent of the Nation's corn acreage was rated in good to excellent condition, 9 percentage points below the same time last year.

Thirty-five percent of the Nation's soybean acreage was planted by May 7, twenty-four percentage points ahead of last year and 14 percentage points ahead of the 5-year average. Nine percent of the Nation's soybean acreage had emerged by May 7, six percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Sixty-six percent of the Nation's soybean acreage was planted by May 21, nineteen percentage points ahead of last year and 14 percentage points ahead of the 5-year average. Thirty-six percent of the Nation's soybean acreage had emerged by May 21, seventeen percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Ninety-one percent of the Nation's soybean acreage was planted by June 4, fifteen percentage points ahead of both last year and the 5-year average. At that time, soybean planting progress was ahead of the 5-year average in all 18 estimating States. Seventy-four percent of the Nation's soybean acreage had emerged by June 4, twenty percentage points ahead of last year and 18 percentage points ahead of the 5-year average. On June 4, sixty-two percent of the Nation's soybean acreage was rated in good to excellent condition.

By May 7, thirty-eight percent of the Nation's winter wheat crop was headed, 6 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By May 21, sixty-one percent of the Nation's winter wheat crop was headed, equal to both last year and the 5-year average. By June 4, eighty-two percent of the Nation's winter wheat crop was headed, 4 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Four percent of the 2023 winter wheat acreage had been harvested by June 4, one percentage point behind last year but equal to the 5-year average. On June 4, thirty-six percent of the 2023 winter wheat crop was reported in good to excellent condition, 6 percentage points above the same time last year.

Nationwide, 22 percent of the cotton crop was planted by May 7, one percentage point behind both the previous year and the 5-year average. Nationwide, 45 percent of the cotton crop was planted by May 21, seven percentage points behind the previous year and 5 percentage points behind the 5-year average. Nationwide, 71 percent of the cotton crop was planted by June 4, eleven percentage points behind the previous year and 4 percentage points behind the 5-year average. Six percent of the Nation's cotton acreage had reached the squaring stage by June 4, four percentage points behind both last year and the 5-year average. On June 4, fifty-one percent of the 2023 cotton acreage was rated in good to excellent condition, 3 percentage points above the same time last year.

Twenty-four percent of the Nation's sorghum acreage was planted by May 7, two percentage points ahead of the previous year but equal to the 5-year average. Thirty-three percent of the Nation's sorghum acreage was planted by May 21, one percentage point ahead of the previous year but equal to the 5-year average. Forty-nine percent of the Nation's sorghum acreage was planted by June 4, five percentage points behind the previous year and 4 percentage points behind the 5-year average. Texas had planted 85 percent of its sorghum acreage by June 4, equal to the previous year but 3 percentage points behind the 5-year average.

By May 7, producers had seeded 72 percent of the 2023 rice acreage, 9 percentage points ahead of both the previous year and the 5-year average. By May 21, fifty-five percent of the Nation's rice acreage had emerged, 20 percentage points ahead of last year and 14 percentage points ahead of the 5-year average. By May 21, producers had seeded 90 percent of the 2023 rice acreage, 1 percentage point ahead of the previous year and 2 percentage points ahead of the 5-year average. By May 21, seventy-six percent of the Nation's rice acreage had emerged, 12 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. By June 4, eighty-eight percent of the Nation's rice acreage had emerged, equal to last year but 1 percentage point ahead of the 5-year average. On June 4, seventy percent of the Nation's rice acreage was rated in good to excellent condition, 2 percentage points below the same time last year.

Nationally, oat producers had seeded 60 percent of this year's acreage by May 7, six percentage points ahead of the previous year but 4 percentage points behind the 5-year average. Forty-two percent of the Nation's oat acreage was emerged by May 7, seven percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Nationally, oat producers had seeded 82 percent of this year's acreage by May 21, six percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Sixty-five percent of the Nation's oat acreage had emerged by May 21, nine percentage points ahead of the previous year but 2 percentage points behind the 5-year average. Nationally, oat producers had seeded 97 percent of this year's acreage by June 4, four percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Eighty-six percent of the Nation's oat acreage had emerged by June 4, seven percentage points ahead of the previous year but equal to the 5-year average. Thirty-two percent of the Nation's oat acreage had headed by June 4, seven percentage points ahead of last year and 2 percentage points ahead of the 5-year average. On June 4, fifty-seven percent of the Nation's oat acreage was rated in good to excellent condition, 2 percentage points above the same time last year.

Thirty-eight percent of the Nation's barley crop was planted by May 7, eight percentage points behind last year and 12 percentage points behind the 5-year average. Eleven percent of the Nation's barley crop had emerged by May 7, nine percentage points behind the previous year and 8 percentage points behind the 5-year average. Seventy percent of the Nation's barley crop was planted by May 21, equal to last year but 10 percentage points behind the 5-year average. Thirty-three percent of the Nation's barley crop had emerged by May 21, twelve percentage points behind the previous year and 17 percentage points behind the 5-year average. Ninety-two percent of the Nation's barley crop was planted by June 4, two percentage points ahead of last year but 3 percentage points behind the 5-year average. Seventy-two percent of the Nation's barley crop had emerged by June 4, one percentage point ahead of the previous year but 8 percentage points behind the 5-year average. On June 4, sixty-five percent of the Nation's barley acreage was rated in good to excellent condition, 19 percentage points above the same time last year.

By May 7, twenty-four percent of the spring wheat crop was seeded, 2 percentage points behind last year and 14 percentage points behind the 5-year average. By May 7, five percent of the Nation's spring wheat crop had emerged, 3 percentage points behind the previous year and 6 percentage points behind the 5-year average. By May 21, sixty-four percent of the spring wheat crop was seeded, 16 percentage points ahead of last year but 9 percentage points behind the 5-year average. By May 21, thirty-two percent of the Nation's spring wheat crop had emerged, 5 percentage points ahead of the previous year but 8 percentage points behind the 5-year average. By June 4, ninety-three percent of the spring wheat crop was seeded, 12 percentage points ahead of last year but equal to the 5-year average. By June 4, seventy-six percent of the Nation's spring wheat crop had emerged, 23 percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. On June 4, sixty-four percent of the Nation's spring wheat was rated in good to excellent condition.

Nationally, peanut producers had planted 17 percent of the 2023 peanut acreage by May 7, six percentage points behind both the previous year and the 5-year average. Nationally, peanut producers had planted 55 percent of the 2023 peanut acreage by May 21, seven percentage points behind last year and 6 percentage points behind the 5-year average. Nationally, peanut producers had planted 85 percent of the 2023 peanut acreage by June 4, two percentage points behind last year but equal to the 5-year average. Advances of 10 percentage points or more were reported in all 8 estimating States. On June 4, seventy-two percent of the Nation's peanut acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

By May 7, forty-one percent of the sugarbeet crop was planted, 16 percentage points ahead of last year but 15 percentage points behind the 5-year average. By May 21, ninety-five percent of the sugarbeet crop was planted, 47 percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Planting progress in North Dakota and Minnesota advanced by 30 percent and 19 percent respectively.

Five percent of the Nation's intended 2023 sunflower acreage was planted by May 21, one percentage point ahead of last year but 5 percentage points behind the 5-year average. Forty percent of the Nation's intended 2023 sunflower acreage was planted by June 4, nine percentage points ahead of last year but 1 percentage point behind the 5-year average. Advances of 10 percentage points or more were reported in all 4 estimating States.

## Crop Comments

**Winter wheat:** Production is forecast at 1.14 billion bushels, up 1 percent from the May 1 forecast and up 3 percent from 2022. As of June 1, the United States yield is forecast at 44.9 bushels per acre, up 0.2 bushel from last month but down 2.1 bushels from last year's average yield of 47.0 bushels per acre. Dry conditions through the Central Plains have hampered yield potential. As of June 4, thirty-six percent of the winter wheat acreage in the 18 major producing States was rated in good to excellent condition, six percentage points higher than at the same time last year. Nationally, 82 percent of the winter wheat crop was headed by June 4, one percentage point ahead of the 5-year average pace.

Forecasted head counts from the objective yield survey in the six Hard Red Winter States (Colorado, Kansas, Montana, Nebraska, Oklahoma, and Texas) are below last year's final head count in Kansas, Nebraska, and Oklahoma, but are above last year's in Colorado, Montana, and Texas. As of June 4, the winter wheat crop in Kansas, Oklahoma, and Texas was rated in good to excellent condition at 12 percent, 37 percent, and 29 percent, respectively. In Texas, winter wheat harvest was 29 percent complete, 3 percentage points behind the 5-year average pace.

Forecasted head counts from the objective yield survey in the three Soft Red Winter States (Illinois, Missouri, and Ohio) are below last year's final head count in Illinois and Missouri but are above last year's in Ohio. As of June 4, the winter wheat crop in Illinois, Missouri, and Ohio was rated in good to excellent condition at 65 percent, 57 percent, and 64 percent, respectively.

Forecasted head counts from the objective yield survey in Washington are below last year's final head count. As of June 4, the winter wheat crop in Idaho, Oregon, and Washington was rated in good to excellent condition at 55 percent, 42 percent, and 63 percent, respectively.

**Durum wheat:** Production of Durum wheat in Arizona and California is forecast at a collective 6.30 million bushels, down 1 percent from last month and down 53 percent from last year.

**Grapefruit:** The United States 2022-2023 grapefruit crop is forecast at 341,000 tons, virtually unchanged from the previous forecast but down 9 percent from last season's final utilization. The Florida forecast, at 1.82 million boxes (77,000 tons), is up 1 percent from previous forecast but down 45 percent from the last season. California and Texas grapefruit production forecasts were carried forward from the previous forecast.

**Tangerines and mandarins:** The United States tangerine and mandarin crop is forecast at 863,000 tons, down slightly from the previous forecast but up 17 percent from the last season's final utilization. The Florida tangerine and mandarin forecast, at 490,000 boxes (23,000 tons), is down 2 percent from the previous forecast and down 35 percent from last season. The California tangerine and mandarin forecast was carried forward from the previous forecast.

**Hops:** United States hop acreage strung for harvest in 2023 is forecast at 54,718 acres, down 8 percent from last year's total of 59,785 acres. In Washington, the largest acreage State, 38,993 acres were strung for harvest, down 9 percent from the previous season. In Idaho, area strung for harvest was 8,832 acres, down 5 percent from 2022. Oregon hop growers strung 6,893 acres for harvest this season, down 11 percent compared to 7,756 acres last season.

**Cherries, Tart:** United States tart cherry total production for 2023 is forecast at 203 million pounds, down 17 percent from the 2022 production. In Michigan, the largest producing State, a mild winter was followed by periods of cold weather from mid-April to early-May, with some reports of frost damage. Warmer weather in the last half of May pushed tart cherry development and pollination activity increased. In Utah, as of the week ending May 28, bloom was 95 percent complete compared with 79 percent for the previous year.

**Cherries, Sweet:** United States sweet cherry total production for 2023 is forecast at 371,000 tons, up 60 percent from 2022. In Washington, the largest producing State, growing conditions were ideal, with temperatures in the low 40's to mid-80's. In California, a long-wet winter was followed by a cool spring that slowed crop growth. This delayed the start of the harvesting season. Ample rain helped replenish soil moisture for orchards, which aided production. In Oregon, an early spring freeze had no impact on the crop. Warm weather created ideal growing conditions throughout the growing season.

**Maple syrup:** The 2023 United States maple syrup production totaled 4.18 million gallons, down 15 percent from the previous season. The number of taps totaled 13.4 million, down 4 percent from the 2022 total. Yield per tap was 0.311 gallon, down 0.042 gallon from the previous season.

The 2022 United States average price per gallon was \$34.70, down \$1.20 from 2021. Value of production, at \$172 million for 2022, was up 28 percent from the 2021 season.

## Statistical Methodology

**Wheat survey procedures:** Objective yield and farm operator surveys were conducted between May 25 and June 6 to gather information on expected yield as of June 1. The objective yield survey was conducted in 10 States that accounted for about 65 percent of the 2022 winter wheat production. Farm operators were interviewed to update previously reported acreage data and seek permission to randomly locate two sample plots in selected winter wheat fields. The counts made within each sample plot depended upon the crop's maturity. Counts such as number of stalks, heads in late boot, and number of emerged heads were made to predict the number of heads that will be harvested. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when the heads are clipped, threshed, and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interview. Approximately 3,100 producers were interviewed during the survey period and asked questions about the probable yield on their operation. These growers will continue to be surveyed throughout the growing season to provide indications of average yields.

**Orange survey procedures:** The orange objective yield survey for the June 1 forecast was conducted in Florida. In August and September last year, the number of bearing trees and the number of fruit per tree was determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted, which combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California also conducts objective measurement surveys in September for Navel oranges and in March for Valencia oranges.

**Wheat estimating procedures:** National and State level objective yield and grower reported data were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared to previous months and previous years. Each Regional Field Office submits their analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published June 1 forecasts.

**Orange estimating procedures:** State level objective yield indications for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. The Florida Field Office submits its analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the Florida survey data and their analysis to prepare the published June 1 forecast. The June 1 orange production forecasts for California and Texas are carried forward from April.

**Revision policy:** The June 1 production forecast will not be revised; instead, a new forecast will be made each month throughout the growing season. End-of-season wheat estimates are made after harvest. At the end of the wheat marketing season, a balance sheet is calculated using carryover stocks, production, exports, millings, feeding, and ending stocks. Revisions are then made if the balance sheet relationships or other administrative data warrant changes. End-of-season orange estimates will be published in the *Citrus Fruits Summary* released in August. The orange production estimates are based on all data available at the end of the marketing season, including information from marketing orders, shipments, and processor records. Allowances are made for recorded local utilization and home use.

**Reliability:** To assist users in evaluating the reliability of the June 1 production forecast, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the June 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of the squared percentage deviations for the latest 20-year period is computed. The square root of the average becomes statistically the "Root Mean Square Error." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The “Root Mean Square Error” for the June 1 winter wheat production forecast is 4.9 percent. This means that chances are 2 out of 3 that the current winter wheat production will not be above or below the final estimate by more than 4.9 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 8.4 percent.

Also shown in the following table is a 20-year record for selected crops of the differences between the June 1 forecast and the final estimate. Using winter wheat again as an example, changes between the June 1 forecast and final estimate during the last 20 years have averaged 58 million bushels, ranging from 4 million to 166 million bushels. The June 1 forecast has been below the final estimate 9 times and above 11 times. This does not imply that the June 1 winter wheat forecast this year is likely to understate or overstate final production.

### Reliability of June 1 Crop Production Forecasts

[Based on data for the past twenty years]

| Crop                                | Root mean square error | 90 percent confidence interval | Difference between forecast and final estimate |            |            |             |             |
|-------------------------------------|------------------------|--------------------------------|--|------------|------------|-------------|-------------|
|                                     |                        |                                | Production                                     |            |            | Years       |             |
|                                     |                        |                                | Average  | Smallest   | Largest    | Below final | Above final |
|                                     | (percent)              | (percent)                      | (millions)                                     | (millions) | (millions) | (number)    | (number)    |
| Oranges <sup>1</sup> .....tons      | 3.7                    | 6.4                            | 140  | 18         | 473        | 9           | 11          |
| Wheat<br>Winter wheat ..... bushels | 4.9                    | 8.4                            | 58   | 4          | 166        | 9           | 11          |

<sup>1</sup> Quantity is in thousands of units.

## USDA, National Agricultural Statistics Service Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@usda.gov](mailto:nass@usda.gov)

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| Joshua Bates – Hemp, Oats, Soybeans.....  | (202) 690-3234 |
| Natasha Bruton – Barley, Cotton System Consumption and Stocks, Grain Crushings .....  | (202) 690-1042 |
| David Colwell – Fats and Oils, Flour Milling Products.....  | (202) 720-8800 |
| Michelle Harder – County Estimates, Hay .....   | (202) 690-8533 |
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| Becky Sommer – Cotton, Cotton Ginnings, Sorghum .....   | (202) 720-5944 |
| Travis Thorson – Sunflower, Other Oilseeds.....   | (202) 720-7369 |
| Lihan Wei – Peanuts, Rice.....  | (202) 720-7688 |
| Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section .....  | (202) 720-2127 |
| Deonne Holiday – Almonds, Asparagus, Carrots, Coffee, Cranberries, Onions,<br>Plums, Prunes, Sweet Corn, Tobacco.....   | (202) 720-4288 |
| Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup,<br>Nectarines, Pears, Snap Beans, Spinach, Tomatoes .....   | (202) 720-3250 |
| Krishna Rizal – Artichokes, Cauliflower, Celery, Garlic, Grapefruit, Kiwifruit,<br>Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives,<br>Oranges, Pistachios..... | (202) 720-5412 |
| Chris Singh – Apples, Blueberries, Cucumbers, Hazelnuts, Potatoes, Pumpkins,<br>Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes .....            | (202) 720-4285 |
| Antonio Torres – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils,<br>Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons .....             | (202) 720-2157 |
| Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas,<br>Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans .....                                   | (202) 720-4215 |

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